	Application No.	Applicant(s)
	10/033,799	YANG, HONG KUI
Notice of Allowability	Examiner	Art Unit
	Charles Chow	2685
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate comming IGHTS. This application is:	n this application. If not included unication will be mailed in due course. THIS
1. This communication is responsive to 11/17/2004.		
2. The allowed claim(s) is/are <u>1-11</u> .		
3. \boxtimes The drawings filed on <u>05 April 2005</u> are accepted by the E	xaminer.	
 4. Acknowledgment is made of a claim for foreign priority unally all b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	e been received. e been received in Application	on No
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be subminformal PATENT APPLICATION (PTO-152) which give		
6. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the sheet in the property of	son's Patent Drawing Review . s Amendment / Comment or .84(c)) should be written on t	r in the Office action of he drawings in the front (not the back) of
7. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	SIT OF BIOLOGICAL MATE FOR THE DEPOSIT OF BIO	ERIAL must be submitted. Note the DLOGICAL MATERIAL.
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/O Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. Interview S Paper No. 98), 7. Examiner's	formal Patent Application (PTO-152) ummary (PTO-413), /Mail Date Amendment/Comment Statement of Reasons for Allowance

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Detailed Action

 Applicant has been corrected drawing, Fig. 1, the objection to drawing, Fig. 1, has being removed.

Allowable Subject Matter

2 The following is an examiner's statement of reasons for allowance:

Application case 10/033,642 having the same inventor Hong Yang, as this application, but claims different subject matter and features, with matched receiver, transmitter ,FIR filter and matched receiver, transmitter, phase equalizers, for reducing inter-chip distortion.

Claims 1-11 are allowable over the prior art of record, the prior art fails to teach singly, particularly, or in combination, the subject matter, (pages 5-7 of applicant's amendment) for the transmitters, receivers, in a base station, the receiver FIR filter being matched to said transmitter FIR filter and said receiver phase equalizer is matched to said predistortion phase equalizer; wherein the FIR filter is matched to a transmitter FIR filter and the receiver phase equalizer is matched to a pre-distortion phase equalizer in a base station for reducing an inter-Chip Interference caused by distortion introduced by the transmitter FIR filter and predistortion phase equalizer in the base station, for reducing the inter-chip interference, difficultly improved by hardware, by utilizing software controlled matched FIR filters and matched phase equalizers in transmitter side and in receiver side, for compensation of distorted transmitted signal arriving at the receiver side.

The dependent claims are also allowable due to their dependency upon the independent claims and the additional claimed features.

Applicant claims a CDMA 2000 receiver system having plurality of transmitters, one or more transmitter comprising a base station processor, a finite impulse response FIR, a predistortion phase equalizer and a digital-to analog DAC converter; a plurality of receivers, one

or more receivers comprising an analog-to-digital ADC converter, a FIR filter, a phase equalizer and a receiver base band processor and said receiver FIR filter being matched to said transmitter filter filer and said receiver phase equalizer is matched to said pre-distortion phase equalizer; wherein the FIR filter is matched to a transmitter FIR filter and the receiver phase equalizer is matched to a pre-distortion phase equalizer in a base station for reducing an inter-Chip Interference caused by distortion introduced by the transmitter FIR filter and predistortion phase equalizer in the base station [claims 1, 8].

The closest cited prior Lehman et al. (US 6,282,184 B1) teaches CDAM base station transmitter and receiver (Fig. 2, col. 6, lines 33-47), the base band DSP 20-22 (Fig. 2), a CSD FIR 123 of the CDMA TX channelizer bank 23 (Fig. 9), and a SD FIR 64 of the CDMA RX channelizer 7 (Fig. 6). Lehman fails to teach the receiver FIR filter being matched to said transmitter FIR filter and said receiver phase equalizer is matched to said predistortion phase equalizer; wherein the FIR filter is matched to a transmitter FIR filter and the receiver phase equalizer is matched to a pre-distortion phase equalizer in a base station for reducing an inter-Chip Interference caused by distortion introduced by the transmitter FIR filter and predistortion phase equalizer in the base station.

Other prior arts in below has been considered, but they fail to teach the above claimed features.

Oler et al. (US 6,031,866) teaches the pre-equalizer 16 of transmitting section of base station, Fig.1, the phase pre-coding for the phase equalizing (col. 2, lines 3-21), the remote equalizer 128 of the remote transceiver 110 (Fig. 2), the coefficients of the forward filter 16 in pre-equalizer 12 of the transmit section, the coefficients of the forward filter 34 of base

equalizer 28 in the receiving section 14 (col. 5, lines 59-67). Oler fails to teach the receiver FIR filter being matched to said transmitter FIR filter and said receiver phase equalizer is matched to said pre-distortion phase equalizer; wherein the FIR filter is matched to a transmitter FIR filter and the receiver phase equalizer is matched to a pre-distortion phase equalizer in a base station for reducing an inter-Chip Interference caused by distortion introduced by the transmitter FIR filter and predistortion phase equalizer in the base station,

Aschwanden (US 5,896,306) teaches the phase distortion equalizer, phase correction A/B for correction the phase error caused by the group delay from the output of the FIR low pass filter LPF A/B (abstract, col. 2, lines 28-41; col. 5, lines 4-19; col. 6, lines 32-44).

Choi et al. (US 2003/0214,926 A1).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

- Any inquiry concerning this communication or earlier communications from the examiner should be directed to Charles Chow whose telephone number is (703) 272-7889. The examiner can normally be reached on 8:00am-5:30pm.
 - If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Urban can be reached on (703) 272-7899. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published

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applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Charles Chow C.C.

May 2, 2005.

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